



TETRA TECH NUS, INC.

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C-NAVY-08-03-1649W

September 19, 2003

Project Number N8856

Mr. Franco LaGreca
Head, New England Restoration Management Branch,
EFA Northeast, Naval Facilities Engineering Command
10 Industrial Highway, Mail Stop 82
Lester, Pennsylvania 19113

Reference: CLEAN Contract No. N62467-D-94-0888
Contract Task Order No. 0849

Subject: Access for Background Investigations at Wanumetonomy Golf Course
Study Area 08, NUSC Disposal Area
Naval Underwater Warfare Center, Middletown, Rhode Island

Dear Mr. LaGreca:

This letter has been prepared to describe intended investigation activities at a property abutting the NUSC Disposal Area (Study Area 08) referenced above (the Site).

As a part of an environmental "Study Area Screening Evaluation" for the Site, a background soil investigation is necessary. The background area that has been identified for sample collection for this Site includes, in part, the Wanumetonomy Golf Course, Inc. located at 152 Brown Lane in Middletown Rhode Island (WGC Inc.). The property is referenced in Middletown tax records as Plate 106, Lot 1.

The Navy requests access to the WGC Inc. to help establish acceptable concentrations of inorganic and organic chemicals in surface soil for the abutting Navy Site.

This letter describes the intended activities, the locations where samples may be collected, and the intended use of the data. A full description of this effort is described in the Work Plan for Background Investigations, NUSC Disposal Area, SA-08, prepared by Tetra Tech NUS, Inc. March 2003 (Draft).

1. Intended Use of Data:

Previous investigations for nearby sites indicate that the background levels of some naturally occurring and anthropogenic chemicals such as arsenic and PAHs may be present in soils at the NUSC Site. The objective for this study is to establish upgradient and background concentrations of metals and organic chemicals in soils for the Site by determining the occurrence, geochemical abundance, and variability (scatter) of surface soil chemical concentrations at areas that share similar soil types and historic use. The WGC has been selected as both it and the Site are located on historically agricultural land, and because no apparent activity has occurred there to disturb the soil matrix since the Site was developed and occupied by the Navy. Therefore, the soils at the WGC are believed to be representative of what could be expected at the Navy Site if the Navy had not occupied the Site.

The background levels for the chemicals detected will be used to assist in the evaluation of analytical data for the SA-08 Site by comparison of the background data to site data. Chemical concentrations in Site soils that are below the background conditions may not require additional environmental actions.

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2. Planned Activities:

A surface soil (0-2 feet depth interval) sample will be collected at each location using hand tools including soil coring devices, hand augers, and possibly powered hammer drills. This technique is known as direct push technology (DPT). DPT devices typically leave a maximum two inch diameter core hole prior to sod repair.

Soil samples will be transferred from the corer, the auger or the DPT probe by hand, or hand tool, depending on the soil conditions and accessibility. The soil will be deposited into a stainless steel bowl and homogenized using a stainless steel trowel and then transferred to glass sample containers. All sample locations will be backfilled with clean sand and bagged topsoil level to the original grade.

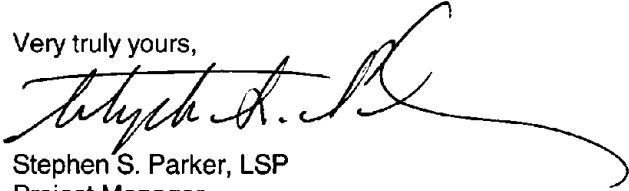
3. Sample Locations:

Figure 3-1 (attached) to this letter depicts the intended sample stations. The sample stations were selected based on soil type, location in reference to the Site, and the belief that minimal activity occurred at these locations for the duration of the operation of the WGC Inc. Sample stations are targeted away from the prepared portions of the golf course, intentionally avoiding the fairways, tee boxes, greens and hazards. Samples will only be collected in the "out" areas and in the "rough" areas.

As indicated on the figure, the soil samples will be collected from areas between the fairways. In addition, a series of sediment samples will be collected from the stream that crosses the southwestern most fairway, which feeds into the Navy property. These sediment sample stations will be taken from the edge of the water, and core holes will also be repaired as described in #2 above.

As stated above, additional detail on the intended background soil study is available in the Tetra Tech NUS, Inc. work plan and revisions. If you have any questions or need additional information regarding this effort, please do not hesitate to contact me.

Very truly yours,



Stephen S. Parker, LSP
Project Manager

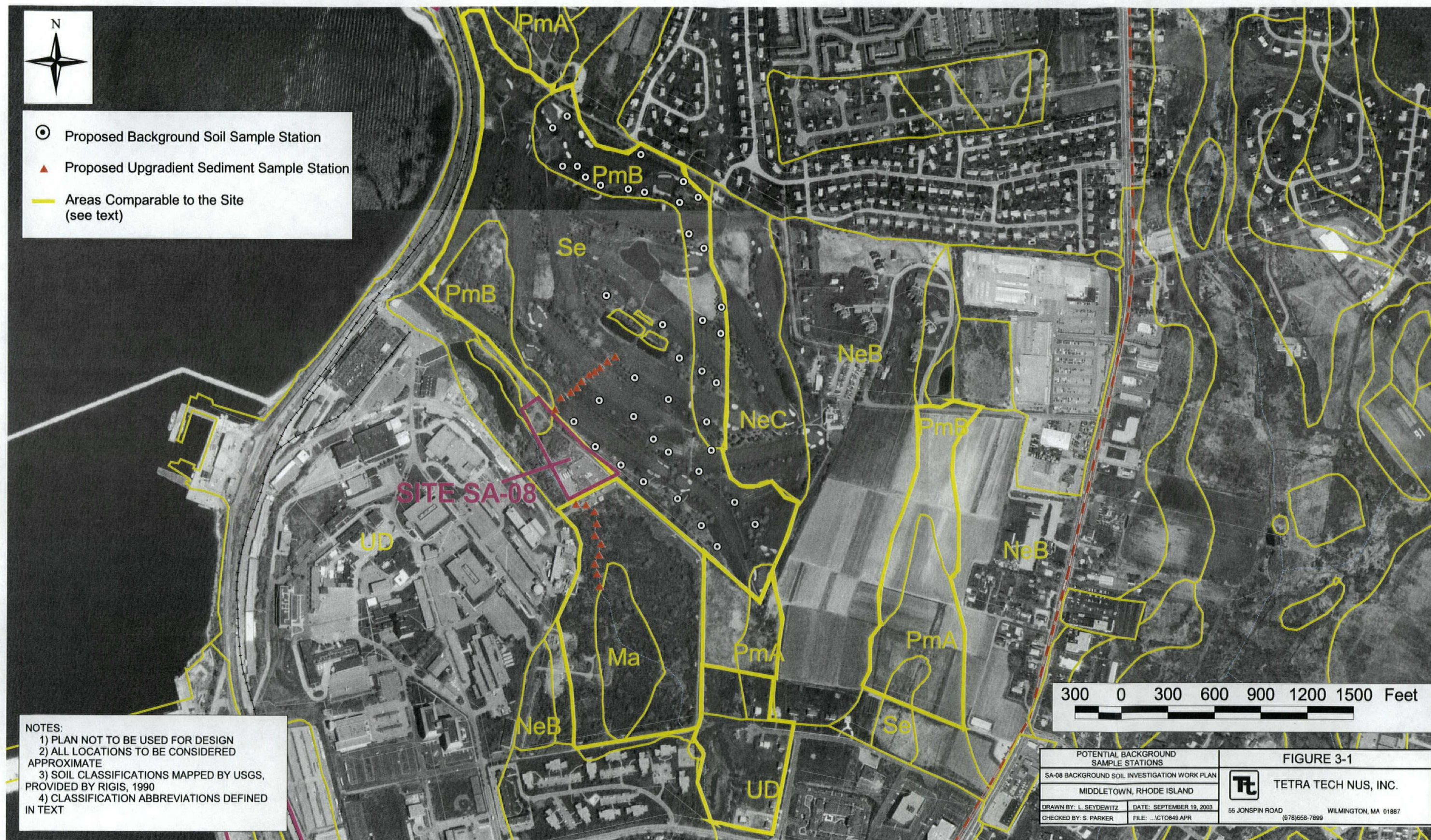
SSP/rp

Attachment

c: C. Mueller, NSN (w/encl. - 2)
J. Trepanowski/G. Glenn, TiNUS (w/encl. - 1)
File N8856-3.2 (w/o encl.), N8856-8.0 (w/encl. - 1)



- Proposed Background Soil Sample Station
- ▲ Proposed Upgradient Sediment Sample Station
- Areas Comparable to the Site (see text)



NOTES:
1) PLAN NOT TO BE USED FOR DESIGN
2) ALL LOCATIONS TO BE CONSIDERED APPROXIMATE
3) SOIL CLASSIFICATIONS MAPPED BY USGS, PROVIDED BY RIGIS, 1990
4) CLASSIFICATION ABBREVIATIONS DEFINED IN TEXT

300 0 300 600 900 1200 1500 Feet

| POTENTIAL BACKGROUND SAMPLE STATIONS | | FIGURE 3-1 | |
|---|--------------------------|--------------------------------------|--|
| SA-08 BACKGROUND SOIL INVESTIGATION WORK PLAN | | TETRA TECH NUS, INC. | |
| MIDDLETOWN, RHODE ISLAND | | 55 JONSPIN ROAD WILMINGTON, MA 01887 | |
| DRAWN BY: L. SEYDEWITZ | DATE: SEPTEMBER 19, 2003 | (978)658-7899 | |
| CHECKED BY: S. PARKER | FILE: ...ICT0849 APR | | |